



**Department of Civil Engineering**  
**CE 491**  
**CE492**  
**Graduation Design Project Proposal**

<b>Project Title:</b>	
<b>Project Team:</b>	
<b>Project Supervisor:</b>	
<b>Year/Semester:</b>	

## **1. Introduction**

Introduce the motivation/objective of the project. A brief description of the topic with regards to the details of process or product under investigation should be given (This should generally start with the introduction of the company facing the problem or introduction of the system in which the problem arises).

Expectations and needs of the stakeholders should be stated. You should discuss the tradeoffs between the requirements of these stakeholders. (Minimum stakeholder scheme includes the service provider (or producer), customer, and regulator (government)).

Impact of the project on the following aspects **must be elaborated**.

1. *Economical Issues:*
2. *Environmental Issues:*
3. *Sustainability:*
4. *Manufacturability:*
5. *Ethics:*
6. *Health:*
7. *Safety:*
8. *Social and Political Issues:*

You should also discuss the limitations/restrictions of the project with respect to the aspects mentioned above.

## **2. Proposed Work and Problems to be investigated**

Go into details here. Clearly state what you are proposing to achieve. Since the success of the project will be measured by the level of your achievements, you must clearly define your performance criteria.

You **must mention** which methodologies you are planning to use and why should they be taken into consideration (You must propose at least two approaches. A decision on the best approach should be the key task to be completed by the Progress Report Presentation).

### **Approach 1:**

### **Approach 2:**

Highlight the connection of the project to the skills and knowledge you accumulated from your previous courses (which Industrial Engineering skills, tools, and techniques are expected to be integrated into the solution approach). Limitations of each above approach (best to your knowledge) reflected to real life conditions (such as uncontrollable variables) **must be illustrated** as well.

### **3. Conclusions and Design Implications**

Give a brief summary. Highlight the importance, results and outputs you aim to achieve (both from academically and practical point of view).

You **must write** out your expectations and concerns on the **design** of the Decision Support System (if the problem related to a process or service) or on the design of the Measurement, Analyze and Improvement of the product (if the problem related to a physical component).

